

# 6CM3

## Half-Wave Vacuum Rectifier

### NOVAR TYPE

#### "PRESSURE-WELDED" CATHODE COATING

*For Color-TV Damper-Diode Applications*

#### ELECTRICAL CHARACTERISTICS

##### Bogey Values

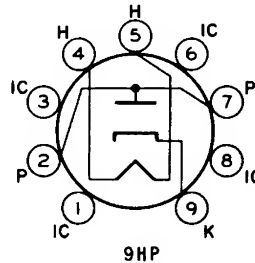
Heater Voltage (AC or DC) . . . . .	$E_h$	6.3	V
Heater Current . . . . .	$I_h$	2.4	A
Direct Interelectrode Capacitances			
Without external shield			
Plate to cathode and heater . . . . .	$c_p(k+h)$	20	pF
Cathode to plate and heater . . . . .	$c_k(p+h)$	18	pF
Heater to cathode . . . . .	$c_{h-k}$	4.0	pF
Instantaneous Tube Voltage Drop . . . . .	$e_b$	10	V
For instantaneous plate current ( $i_b$ ) = 350 mA			

#### MECHANICAL CHARACTERISTICS

Operating Position . . . . .	Any
Type of Cathode . . . . .	Coated Unipotential
Maximum Overall Length . . . . .	3.005 in
Maximum Seated Length . . . . .	2.625 in
Maximum Diameter . . . . .	1.188 in
Dimensional Outline . . . . .	See General Section
Envelope . . . . .	T9
Base . . . . .	Small-Button Novar 9-Pin With Exhaust Tip (JEDEC E9-89)

#### TERMINAL DIAGRAM (Bottom View)

Pin 1—Do Not Use  
Pin 2—Plate  
Pin 3—Do Not Use  
Pin 4—Heater  
Pin 5—Heater  
Pin 6—Do Not Use  
Pin 7—Plate  
Pin 8—Do Not Use  
Pin 9—Cathode



#### DESIGN-MAXIMUM RATINGS

*For operation as a Damper Tube in Color TV  
Receivers utilizing a 525-line, 30-frame system*

Peak Inverse Plate Voltage . . . . .	$-e_{bm}$	5500 <sup>a</sup>	V
Heater-Cathode Voltage			
Peak . . . . .	$e_{hkm}$	+300	V
		-5500	V
Average . . . . .	$E_{hk(av)}$	+100	V
		-900	V
Heater Voltage (AC or DC) . . . . .	$E_h$	5.7 to 6.9	V



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## Plate Current

Peak . . . . .	$i_{bm}$	1700	mA
Average . . . . .	$i_{b(av)}$	400	mA
Plate Dissipation . . . . .	$P_b$	12	W

<sup>a</sup> This rating is applicable when the duration of the voltage pulse does not exceed 15% of one horizontal scanning cycle. In a 525-line, 30-frame system, 15% of one horizontal scanning cycle is 10  $\mu$ s.

## OPERATING CONSIDERATIONS

Socket terminals 1, 3, 6, and 8 should not be used as tie points for external-circuit components. It is recommended that these socket tabs be removed to reduce the possibility of arc-over and to minimize leakage.

